

**Claims:** I claim

A variable speed integrated planer motor assembly comprising:

- a. a planer stator assembly having a plurality of stator coils made with variable width conductors fabricated by an advanced photolithography process,
- b. said planer stator assembly also having a plurality of biased magnetoresistive elements precisely located relative to the stator coils,
- c. said planer stator assembly having a plurality of conductors for connecting the stator coils and the magnetoresistive elements to the motor controller integrated circuit,
- d. said planer stator assembly having a motor controller integrated circuit to provide variable speed operation,
- e. a rotor assembly having a planer surface consisting of a high energy permanent magnet and a magnetic return structure,
- f. said rotor and planer stator assemblies assembled together with a precision washer to establish the motors air gap.

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